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15 December 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Sanitary Sewer System and Pumping Station

1. The following information relative to the Sanitary Sewer System and Pumping Station was obtained from Van Weaver, PBS Bldgs. Manager, who obtained it from the Fairfax County Dept. of Public Works, on Wednesday, 2 December 1970:

a. Sewer Line:

*Agency*  
The force main from the pumping (or lift) station to the gravity line near Va. Route 123 is 8 inches in diameter and 1,381.22 feet long. (Note: The sewer line from the Hqs. bldg. to the pumping station is a 12" gravity line).

b. Pumping Station:

There are three pumps in this building. Two (2) pumps are each driven by a 220 volt, 15 horsepower electric motor and have a design capacity of 190 gallons per minute at an 88 foot head. The third pump is driven by a 51.0 horsepower Wisconsin gasoline engine (Model VR4D) and has a design capacity of 700 gallons per minute at a 95 foot head.

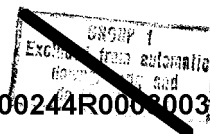
The average flow is 203,751 gallons/day.

The peak flow rate is 3,700,000 gallons/day.

c. County Sanitary Sewer Drawings:

Mr. Van Weaver obtained 5 drawings from the Fairfax County Dept. of Public Works showing the County Sewers in the NE part of the County and some (to Chain Bridge) in Arlington County. These drawings are in the BPS files for Staff use.

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2. The following water rate and usage data was also obtained from Mr. Van Weaver.

a. Water Consumption - 1970

Month	Gallons	Monthly Dollar Cost	**Cost Dollars per 1000 gals.
June	21,546,000	8,619.87	\$ 0.400068
* July	22,389,000	8,957.07	0.400066
August	20,242,000	8,098.27	0.400073
September	18,928,000	7,572.67	0.400078
October	15,447,000	6,066.27	0.392715

\* Highest consumption during CY1970, and highest to date (since 1962)

\*\* Computed by [REDACTED] BPS.

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b. Water Rates:

First 10,000 gallons - \$8.01 per quarter ( 2.67 per month)  
 Next 3,333 gallons - \$2.67 per month (2.67 per month)  
 All use over above @ 40¢ per 1000 gallons.

3. Sewer Rates at Langley are:

Monthly sewer demand charge - \$3,000  
 plus 15¢ per 1000 gallons pumped.

Note: At the above rates, the average monthly bill would be

Fixed Charge	=	\$3,000
30 days/mo x 203.751 K gal/day x .15 =		916.88
		<u>\$3,916.88</u>

[REDACTED]

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/ Engineer  
 Building Planning Staff, OL

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